

BOSZORMENYI, M., dr.; FAUSZT, I., dr.; KANITZ, E., dr.; SCHWEIGER, O., dr.

Combined drug therapy of pulmonary tuberculosis. Ther. Hung. 12
no.2:9-14 '63.

1. National Koranyi Institute for Tuberculosis, Budapest.
(TUBERCULOSIS, PULMONARY) (STREPTOMYCIN)
(ISONIAZID) (AMINOSALICYLIC ACID)

SAGODI, Robert, dr.; BOSZORMENYI, Miklos, dr.; ~~S~~ABO, Istvan, dr.;
VINCZE, Egon, dr.

Bacteriological examination of surgically removed caverns and
tuberculomas. Tuberkulozis 16 no. 4/5:118-121 Ap-My '63.

1. Az Orszagos Koranyi Tbc Intezet (igazgato-foorvos:
Boszormenyi Miklos dr. kandidatus, tudomanyos igazgato:

(Foldes Istvan dr. kandidatus) kozlemenye.

(TUBERCULOSIS, PULMONARY)

(MYCOBACTERIUM TUBERCULOSIS)

(PNEUMONECTOMY)

(ANTITUBERCULAR AGENTS)

BOSZORMENYI, Miklos, dr.; FAUSZT, Imre, dr.

The significance of clinical mass screening technics with simultaneous controls. Orv. hetil. 104 no.15:673-683 14 Ap '63.

1. Orszagos Koranyi Tbc. Intezet.

(MASS SCREENING TECHNIQS)

(STREPTOMYCIN)

(ISONIAZID)

(STATISTICS)

(TUBERCULOSIS, PULMONARY)

(AMINISALICYLIC ACID)

HUNGARY

BOSZORMENYI, Miklos, M.D., [affiliation not given].

"Letter to the Editor"

Budapest, Orvosi Hetilap, Vol 104, No 20, 19 May 1963, pp. 953-954.

Abstract: The author replies to the comments submitted by SZARKAY, Antal, M.D. [this issue, preceding abstract] and DEMENY, Eva, M.D., [this issue, second preceding abstract] on his article on tuberculosis published in Orvosi Hetilap, No 35, 1962. While he welcomes a thorough discussion of the subjects raised in the article, he defends the statements criticized by Doctors Szarkay and Demeny.

1/1

HUNGARY

BOSZORMENYI, Miklos, Dr: National Koranyi Tb Institute (Orszagos Koranyi Tbc. Intezet).

"The 'Secondary' Antituberculotica."

Budapest, Orvosi Hetilap, Vol 104, No 27, 7 July 1963, pages 1258-1261.

Abstract: After a statement by the author that this 'secondary' classification of the newly developed drugs is purely historical, outdated and inaccurate, they are classified according to their bacteriostaticity. The chemotherapeutic: Ethionamide and the antibiotics: D-Cycloserine, Kanamycin and Viomycin are discussed among the strongly bacteriostatic compounds. Their side effects and the development of resistance to them are discussed. The second group of drugs, although of lesser bacteriostatic effect, is useful for the combination with others since they hinder the development of resistance. Discussed among them are: Thiosemicarbazone, Pyrazinamide, Oxytetracycline and Thiocarbanilide. Although objective evaluation of their effect is difficult, the author presents some results of their use on INH-STM and PAS resistant tb patients. 10 Hungarian, 26 Western references.

1/1

SZAKKAY, A.; BOSZORMENYI, M.

Epidemiology of tuberculosis from the viewpoint of the district
physician. Orv. hetil. 104 no.20:952-954 19 My'63

BOSZORMENTI, M.

Results of prolonged drug therapy. Comments on a British
publication. Tuberkulosis 16 no.4/5:154-155 Ap-May '63.

(TUBERCULOSIS, PULMONARY) (ISONIAZID)
(AMINOSALICYLIC ACID)

BOSZORMENYI, Miklos, dr.

Current problems of treatment of pulmonary tuberculosis. Orv.
hetil. 106 no.5:193-199 31 Ja '65

1. Orszagos Koranyi Tbc Intezet.

SOMI-KOVACS, Tibor, dr.; BOSZORMENYI, Miklos, dr.; VARADI, Tamas, dr.

Contribution to the problem of evaluation of the central shadow on fluoroscopic films. Orv. hetil. 106 no.42:1987-1989 17 0 '65.

1. Országos Koranyi Tbc Intezet (igazgato: Boszormenyi, Miklos, dr.).

BOSZORMENYI, Zoltan

Data on the morphogenesis of tomato fruit. Pt.2. Magy biol Debrecen
2:193-199 '52 [publ. '54].

1. Debreceni Kossuth Lajos Tudományegyetem Növénytan Intézete.

Böszörményi (Z.) & Szabó (E.). Az 'ermenti nekrosis' vírusbetegség hatása a Dohány vízforgalmára. [The effect of the Tobacco streak virus disease on the water economy of the Tobacco plant.]—*Ann. Biol. Univ. Hung.*, 2, 2, pp. 201-210, 2 graphs, 1954. [English and Russian summaries.]

Transpiration of tobacco leaves infected by streak virus disease [cf. *R.A.M.*, 19, p. 307; 32, p. 39; and below], the most widely distributed disease of the plant in Hungary, was less than that of healthy ones, the upper leaves particularly giving low values. There was a gradient of water loss, which was at a minimum in leaves on the upper third of the stem. Dry weight increased towards the upper leaves and the percentage water content was higher in infected plants.

BÖSZÖRMÉNYI, ZOLTÁN

Mineral nutrition of nursery trees of the Scotch pine. I. Zoltán Böszörményi (Botvös Lőránd Tudományegyetem Kövénytudományi Intézet, Budapest). *Agrokémia és Talajtan* 5, 76-88 (1956).—The effect of N supply was studied on growth of nursery trees. Two different sol. nutrients were used in sand cultures, each with 5 different N concns. The leaf, root, stem, and side shoots were analyzed for total N, P, K, Ca, and Mg. At the lowermost N level, characteristic red coloring of the needles was observed. The increase in dry-matter content of roots is substantially slower than that of the shoot; the ratio root/shoot decreases with increasing N level until about 180 p.p.m. N is reached, when it is const. In sol. nutrients of the same P content, the P percentage at first follows the increase of N supply; the latter decreases. The change of K percentage is similar. Ca and Mg show a decreasing tendency. Under exptl. conditions the crit. N supply was found to be between 1.8 and 2% in leaves, 1.3-1.6% in roots, 1.2-1.5% in stems, and 1.7-2% in the whole plant. N. Hellinger

COUNTRY : Hungary
 CATEGORY : PLANT PHYSIOLOGY, Mineral Nutrition. I
 ABS. JOUR. : FLE ZHUR - BIOLOGIYA, NO. 4 1959. No. 15279
 AUTHOR : Bőszörmenyi, E.; Mrs. Bőszörmenyi, Z.
 INST. : Hungarian Acad. Sciences
 TITLE : Nitrogen-Phosphate Nutrition and Physiological Age of Lemna minor L.
 ORIG. PUB. : Acta bot. Acad. sci. hung., 1957, 3, No. 1-2, 1-7
 ABSTRACT : Experiments with the cultivation of duckweed on Coagland nutrient solution with varying supplements of N and P showed that reducing the dose of N from 1 to 1/50 did not influence the dry weight of the duckweed; its reproduction rate was enhanced. Reproduction was retarded with doses of P of less than 1/12. A lack of N was hardly manifested on the life span, but it did produce delayed growth. In the absence of P
 CARD: 1/2

COUNTRY
CATEGORY

PLANT PHYSIOLOGY.

I

ABS. JOUR.

REF ZHUR - BIOLOGIYA, NO. 4, 1959,

AUTHOR
INST
TITLE

No. 15279

ORIG. PUB. :

ABSTRACT

: and with 1/12 its norm the life span of the plant was appreciably curtailed. It is suggested that unfavorable combinations of N and P in the nutrient solution decrease the synthesizing ability of the maternal plant, which is reflected on the state of the daughter plants. -- A.Ye. Petrov-Spiridonov

CARD:

2/2

HUNGARY/Plant Physiology. Growth and Development

I-3

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 91331

Author : Boszormenyi Zoltan, Meszes Gabriella

Inst : -

Title : Absorption of Plant Growth Substances

Orig Pub : Bot. kozl., 1957, 47, No 1-2, 23-30

Abstract : This study describes absorption of indoleacetic acid (IAA) (65 milligrams per liter) by potato tuber slices and the effect on this process of various inhibitors and other substances. The small absorption capacity of the freshly cut discs increased as they were washed. The absorption of IAA became lower in the course of time and also with a heightened pH and when emitting N_2 into the atmosphere. The maximum absorption with respect to the temperature was observed at 25° . The respiration inhibitors suppressed the absorption of IAA. 2,4-D, EDTA, glycolic, maleic and monochloroacetic acids, hydroxylamine, yatrene, and coumarin in tested concentrations did not have any effect on the absorption of IAA.

Card

: 1/1

MIGRAY, Emod (Budapest, VIII., Museum korut 4/a); BOSZORMENYI, Zoltan
(Budapest, VIII., Museum korut 4/a)

Application of growth regulating materials in grape cutting.
Botan kozl 47 no.3/4:261-271 '58.

RATNER, E.I.; BOSZORMENYI, Z.

Mutual interactions of amino acids in their uptake by isolated wheat roots. In English. Acta bot. Hung. 5 no.3/4:429-436 '59. (KRII 9:5)

1. The Timirjasev Plant Physiological Institute of the Soviet Academy of Sciences.
(Wheat) (Amino acids) (Roots (Botany))

RATNER, Ye.I.; BESERMEYI, Z. [Beszörményi, Z.]

Beszörményi, Z.
Interaction of amino acids during their absorption by wheat roots.
Fiziol. rast. 6 no.5:537-543 S-O '59. (MIRA 13:2)

I.K.A. Timiryazev Institute of Plant Physiology, U.S.S.R. Academy
of Sciences, Moscow and Institute of Plant Physiology, Eötvö
University, Budapest.
(Amino acids) (Plants--Assimilation)

BOSZORMENYI, Zoltan

Uptake of substances regulating growth. IV. Botan közl 48
no.1/2:9-17 '59.

1. Eotvos Lorand Tudományegyetem Növényeletti Intézet, Budapest,
VIII., Múzeum körút 4/a, és Magyar Biológiai Társaság Botanikai
Szakosztályának titkara.

BOSZORMENYI, Zoltan

"Introduction to pharmacopsychology" by H. Lippert. Reviewed by
Zoltan Boszormenyi. Magyar pszichológiai szemle 17 no.4:472-474,
'60.

BOSZORMENYI, Zoltan, dr., az orvostudományok kandidátusa

The effect of some hallucinogens on furthering psychotherapy.
Magy pszichol szemle 19 no.1:47-51 '62.

1. Országos Ideg- és Elmegyógyintézet.

HUNGARY

BALOGH, Eszter, BOSZORMENYI, Zoltan, CSEH, Edit; Department of Plant Physiology (Novenyeletteni Tanszek) of ELTE [Eotvos Lorand Tudomanyegyetem - - Eotvos Lorand University] (chairman: FRENYO, Vilmos, Dr).

"Effect of Chloramphenicol on the Metabolism of Wheat Roots."

Budapest, Biologiai Kozlomenyek, Vol XI, No 1, 1963, pp 29-38.

Abstract: [Authors' English summary modified] The effect of chloramphenicol on excised roots of three-day old winter wheat seedlings, germinated in the dark, was studied. At a concentration of 10 mM, there was slight effect on the quantity of soluble and protein nitrogen and no effect on the leakage of amino acids into the external solution. After treatment for 24 hours, respiration is strongly inhibited and there is a characteristic, considerable rise in the alanine content of the roots. The latter can be demonstrated also with 1 mM chloramphenicol but the oxygen consumption remains unaffected, two products of dark carbon dioxide fixation disappear and a slight inhibition is found of the anion and amino acid uptake. At 0.1 mM concentration, some effect on the alanine level can be shown and respiration may be stimulated to some extent. The alanine accumulation could not be shown, under identical conditions, in cucumber, radish, and peas. These observations do not confirm the theory of Sutcliffe that ion uptake may be a result of the turnover of protein-type carriers. Of 25 references, 22 are Western and 3 are Eastern European.

BOSZORMENYI, Zoltan; KARPATI, Arpad; MESZES, Gabriella

New process for testing nutritional factors limiting hydro-biological productivity. Botan kozl 50 no.1:34-41 Ny '63.

1. Eotvos Lorand Tudomanyegyetem Kozponti Biologiai Izotop Laboratorium, Budapest, VIII., Muzeum korut 4/a (for Boszormenyi, and Meszes). 2. Kisallattenyesztesi Kutato Intezet, Godollo. (for Karpati). 3. "Botanikai Kozlemenyek" szerkesztoje es szerkeszto bizottsagi tagja (for Boszormenyi).

BOSZORMENYI, Zoltan, tanarseged

Physiological foundations of the development of plant forms.
Elovilag 2 no.4:26-36 O-D '57.

HUNGARY

BOSZORNYI, Zoltan, Dr, SOLTI, Gyongyi, Dr; National Neurological and Psychiatric Institute (director: MARIA, Bela, Dr) (Orszagos Ideg- es Elme-gyogyintezet).

"Data on the Psychiatric Use of Levomepromazine (Tisercin)."

Budapest, Ideggyogyaszati Szemle, Vol XIX, No 9, Sep 66, pages 257-267.

Abstract: [Authors' Hungarian summary modified] In connection with the use of LPZ in the treatment of 900 patients, the applicability of the compound in psychiatry, the psychopathological changes effected by it and the results of its use in combination with other drugs (LPZ + a neuroleptic compound, LPZ + an antidepressant) as well as the side effects observed are reported. The very considerable anxiolytic, initial psychosedative adjuvant and anti-depressant, analgetic as well as adaptation-facilitating effect of LPZ was ascertained. Some examples are mentioned with regard to the course of treatments used. A summary of some results of the pertinent pharmacological, physiological and clinical literature are also presented. The LPZ used was furnished by the Chief Scientific Department of the United Drug and Nutrient Industry (Egyesult Gyogyszer es Tapszergyar Tudomanyos Foosztalya). No references.

1/1

- 70 -

1st AND 2nd ORDER		PROCESSES AND PROPERTIES INDEX		3rd AND 4th ORDER	
ca		119			
The cerebrospinal fluid in epileptics and changes therein after spontaneous and induced seizures. Z. Boszormenyi (Pázmány Péter Univ., Budapest, Hung.). <i>Constita Neural.</i> 3, 281-97(1942) (in French).-- In 80 of 380 epileptics the protein concn., colloid pptn. test, or both were abnormal in the cerebrospinal fluid. No relation could be established between the findings and the duration of disease, the frequency of attacks, or the proximity of the last seizure. In 38 patients the fluid was examd. before and after elec. shock; in about 25% there was an increase in the no. of cells and protein concn. and characteristic changes in the colloid pptn. curve. In 6 of 8 epileptics and 2 of 4 schizophrenics the permeability of the blood-spinal fluid barrier, measured by the Nalla method, was increased after elec. shock. Warren M. Storry					
ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION					
STANDARD #2		SERIALS REF ONLY CRT		SERIALS REF ONLY CRT	

BOSZORMENYI, Z.; NIEDERMULLER, F.

Treatment of facial pareses with stellate ganglion infiltration.
Orv. hetil. 93 no.2:41-46 13 Feb 1952. (CINL 23:2)

1. Doctors. 2. Psychiatric and Neuropathological Clinic (Director -- Prof. Dr. Gyula Nyiro) and Nerve Surgery Institute (Head -- Prof. Dr. László Zoltan), Budapest University.

BOSZORMENYI, Zoltan, dr.

Tetraethyl- Thiuram-Disulphide in the treatment of alcoholism.
Ther. hung. no.3:22-26 1953.

1. From the Municipal Hospital, Baja (Directr:Prof. E. Burg.)
Department of Neuropathology and Mental Diseases (Head of Dept.
Z Boszormenyi).

(ALCOHOLISM, ther.
disulfiram)

(DISULFIRAM, ther. use
alcoholism)

BOSZORMENYI, Zoltan, dr.,; GIMES, Miklosne, dr.,; ORTHMAYR, Alajos, dr.

Pharmacodynamic effects and therapeutic results of largactil
in psychiatry. Orv. hetil. 96 no.38:1039-1045 18 Sept 55.

1. Orszagos Ideg- es Elmegyogyintezet (igazgato: Gimes
Miklosne dr.)

(CHLOROPROMAZINE, therapeutic use,
ment. disord.)

(MENTAL DISORDER, therapy,
chloropromazine)

BOSZORMENYI, Z.

SZARA, I.; SAI-HAIASZ, A.; BOSZORMENYI, Z.

Dimethyltryptamine as a new psychotic agent. Acta physiol. hung.
11(Suppl):78-79 1957.

1. Staatliches Institut für Neurologie und Psychiatrie, Budapest.
(SEROTONIN, antag.
bufotenine, psychol. eff. in normal humans (Ger))

BOSZORMENYI, Zoltan; HORN, Zoltan; DER, Piroska; BRUNECKER, Gyorgy;
ALANTI, Oskar

Diabetes occurring in connection with largactil therapy.
Orv. hetil. 98 no.29:793-795 21 July 57.

1. Az Orszagos Ideg-Elmegyogyintezet (igazgato: Gimes, Miklosne,
dr.) II. sz. Noi Elmeosztalyanak (foorvos: Boszormenyi, Zoltan,
dr.) es a Fovarosi Karolyi Korhaz (igazgato: Lazarits, Jeno, dr.)
Laboratoriumanak (foorvos: Horn, Zoltan, dr. kandidatus)
koslemenye.

(CHLORPROMAZINE, inj. eff.

diabetes mellitus, case reports (Hun))

(DIABETES MELLITUS, etiol. & pathogen.

chlorpromazine, case reports (Hun))

BOSZORMENYI, Zs. Dr.

The use and therapeutic evaluation of tranquillizers. Ther.hung.
8 no.1-2:19-23 '60.

1. Central State Institute of Neurological and Mental Diseases
(Director: Dr. B.Maria), Budapest.
(TRANQUILIZING AGENTS ther)

BOSZORMENYI, Z., dr.

Clinical observations concerning the effect of trioxazine, a tranquilizer. Ther. Hung. 8 no.3/4:13-18 '60.

1. State Institute of Neuropathology and Mental Diseases (Director: Dr. Bela Maria), Budapest.
(TRANQUILIZING AGENTS ther.)

BOSZORMENYI, Zoltan, dr.; BURUCS, Janos, dr.; NAGY, Tibor, dr.

Frenolon and perphenazine in psychiatric practice. Ideggyogy. szemle
14 no.8:247-256 Ag '61.

1. Országos Ideg- és Elmegyógyintézet (Igazgató: Maria Bela dr.).

(PERPHENAZINE ther) (MENTAL DISORDERS ther)

BOSZORMENYI, Zoltan, dr.

Clinical observations on tranquilizing properties of trioxazin.
Orv.hetil. 102 no.10:449-453 5 Mr'61.

1. Országos Ideg- és Elmegyógyintézet.
(TRANQUILIZING AGENTS ther)

BOSZORMENYI, Zoltan, dr.; SRAGLI, Gyula, dr.

On the problem of alcoholism in women. Ideg. szemle 13 no.10:
289-300 0 '60.

1. Az Országos Ideg- és Elmegyógyintézet (Igazgató: Maria Bela dr.)
közleménye.
(ALCOHOLISM)

BOSZORMENYI, Zoltan

An account of the 1st Czechoslovak Psychiatric Congress. Magyar pszichol szemle 17 no.2:209-212 '60.

1. Országos Ideg- és Elmegyógyintézet.

HUNGARY

BOSZORMENYI, Zoltan, M.D., LENARD, Ferenc, M.D., and SALAMON, Jeno, M.D., Candidates, [affiliation not given].

"The Fourteenth International Congress for Applied Psychology"

Budapest, Magyar Pszichologiai Szemle, Vol 20, No 1, 1963, pp. 112-120.

Abstract: The Fourteenth International Congress for Applied Psychology was held in Copenhagen, 13-19 Aug 1961. Delegates from the Scandinavian countries, other Capitalistic countries, including the U.S., and Socialistic countries (Soviet Union, Czechoslovakia, Rumania, German Democratic Republic, Poland, and Hungary) attended. The principal lectures presented were briefly reviewed.

1/1

CSATI, E.

M. Tyska's Map of the World's Mineral Reserves; a criticism. p. 266 (Geodezia
es Kartografia Vol. 8, no. 3, 1956 Budapest)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

12

CA

The determination of ash contents of bread and other materials containing salt. Béla Lutter and György Höl (Hungarian Agr. Exp. Sta., Debrecen). *Közlekedési Közlemények* 47-49, 103-9(1947).—Direct ignition gives exact values only if the temp. does not exceed 100°. To calc. original ash content convert the difference between the NaCl detd. in the ash, ext. by titration and NaCl titratable in the ash to Na₂O (1 mol. NaCl = 0.5 mol. Na₂O) and subtract from the value of NaCl-free ash. The loss of NaCl observed during ignition of bread samples is due not only to sublimation but is chiefly caused by a reaction between phosphates of bread and NaCl in such a manner that HCl in gaseous form disappears and Na is introduced in the form of KNa pyrophosphate. L. P.

ASM-564 METALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

JIT AND JND CHECKS										PROCESSING AND PROPERTY INDEX										JND AND 4TH CHECKS									
12																													
Effect of phosphates on sodium chloride during the ashing of salted cereal products. B. F. Lottor and G. Ros (Hung. Res. for Agr. Chem., Debrecen, Hungary). <i>Cereal Chem.</i> 34, 685-688 (1957).—Samples of bread with different salt contents were ashed at 800° for about 8 hrs. to a light-gray ash. Results on the NaCl in eq. ext. of the bread, and the NaCl in the bread ash show significantly less NaCl in the bread ash than in the eq. ext. of the bread. Such a difference would hardly be expected to be due to sublimation. Known amts. of NaCl added to mixed grains, of 0.6% KH_2PO_4 and 0.25% $CaH_2(PO_4)_2$, were ashed. The results for total residue, NaCl in ash, NaCl in residue, and NaCl decomposed in terms of NaCl and Na_2O, and for residue free of Na_2O and NaCl indicate the decrease of chloride in the ash is correlated with the NaCl-phosphate ratio. An excess of phosphate resulted in no titratable chloride in the ash, owing to reaction of phosphate and chloride with liberation of HCl. Sublimation of the NaCl occurs only when the NaCl-phosphate ratio exceeds 1 at a temp. above 800°. Results in decreasing variable amts. of added NaCl are given as flour ash, NaCl added, total ash, NaCl in ash, and Na_2O, and NaCl-free ash. These results show that the direct ashing method is suitable for estn. of original flour ash in salted cereal products ashed at 800° if the NaCl lost during incineration computed as Na_2O is subtracted from the NaCl-free ash. V. E. Munsey																													
ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION																													
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C.A.

12

Preservation and concentration of tomato juice and
paprika jam. György Bék. Hung. 180,500. June 15,
1940. Freshly pressed tomato juice or raw paprika pulp is
treated with as much 20% HCl in order to obtain a concn.
of 0.6% HCl in the mass, and it is stored in this condition.
Before actual use, acid is neutralized by addn. of the re-
quired amts. of NaOH or Na₂CO₃ or NaHCO₃. I. F.

CA

7

Iodometric determination of sugars. Gyorgy Bot.
Magyar Kém. Lapja 4, 291-4(1949).—Various methods
 were worked out for the detn. of sugars. (1) To 5 ml.
 maltose soln. add 0.85 ml. 5% Na_2CO_3 and 5.0 ml. 0.02 N
 - 1 soln. After 45 min. at 22-3°, add acid and titrate with
 0.01 N $\text{Na}_2\text{S}_2\text{O}_3$ soln. (2) If glucose and maltose are both
 present, a second titration is made after adding an equal
 vol. of 2.0 N H_2SO_4 . Keep the soln. in hot water for 75
 min., cool, and neutralise. (3) To 20 ml. saccharose
 soln. add 20 ml. 0.2 N H_2SO_4 , boil for 7 min. at 100°,
 cool, neutralise, and titrate as under (1). If both maltose
 and glucose are present make a double titration as in (2).
 (4) To 5 ml. fructose soln. in a glass-stoppered bottle add
 - 0.9 ml. 2.5% NaOH and 5.0 ml. 1 soln. After 195 min. in
 water of 22-4°, add H_2SO_4 and titrate as under (1). In
 all cases a blank test should be made and allowed for.
 István Fialdy

Bot, G.

✓ 6404. Delaying action of adenosinetriphosphate, on atrophic processes in muscle. G. Bot, A. Köver and E. Varga *Acta physiol. Acad. Sci. Hung.*, 1955, 8, 321—328 (Inst. of Physiol., Med. Univ., Debrecen, Hungary).—It was shown previously that treatment with ATP diminishes the decrease in the phosphorylating ability of denervated (section of the sciatic nerve) rat muscles. The mechanism of this effect has now been studied. The impairment of the phosphorylase system is greater in glycogen phosphorylation than in the synthetic activity. Denervation does not promote the transformation of phosphorylase-a into -b. The effect of ATP on the phosphorylation of the denervated muscle cannot be attributed to its pyrophosphate component. It is improbable that the ATP effect is exerted through its adenylic acid component by way of activating muscular phosphorylase. (German)

A. B. I. Rezniak

BOT. György: ZSINDELY, Attila

Data on the preparation of crystalline muscle phosphorylases.
Kiserletes orvostud. 8 no.2:197-200 March 56.

1. Debreceni Orvosegyletem Biokemiai Intezete.

(PHOSPHORYLASES, determ.

muscle, isolation of crystalline phosphorylases
from rabbits by new method. (Hun))

(MUSCLE, metab.

phosphorylases, isolation of crystalline phosphorylases
from rabbits by new method. (Hun))

80T, G.
Preparation of crystalline muscle phosphorylase. G. Bot
and A. Zandori, *Ann. Med. Nat. Hist. Nat. Hung.*
Physiol. Acad. Sci. Hung. 9, 73-7 (1956) in English.—
The method of Green *et al.* (C.A. 39, 758⁹) has been sim-
plified and made more reproducible by the following modi-
fications. The $(\text{NH}_4)_2\text{SO}_4$ ppt. is centrifuged at room temp.
Instead of cysteine (I), L-cysteine (II) is employed in the
analysis and recrystn. II is more stable and activates phos-
phorylase to the same degree as I. In estn. of the enzyme
activity, KCN-cysteine replaces I in the original buffer.

Preparative production of crystalline glucose-6-phosphate

BOT, Gy.; JOKAY, I.

Formation of muscle phosphorylase in homogenate. Acta physiol. hung.
11(Suppl):34-35 1957.

1. Pathophysiologisches Institut der Medizinischen Universität,
Debrecen.

(MUSCLES, metab.

phosphorylase activation in homogenates (Ger))

(PHOSPHORYLASES

in musc., activation in homogenates (Ger))

13075 GY.
VARGA, E.; HETENYI, E.; BOT, Gy.

Influence of adrenalina on muscle phosphorylase activity and its significance in the mechanism of fatigue inhibition. Acta physiol. hung. 11 no.3-4:267-276 1957.

1. Physiologisches und Pathophysiologisches Institut der Medizinischen Universität, Debrecen.

(MUSCLES, physiol.

activation of phosphorylases & simultaneous inhib. of musc. fatigue by epinephrine (Ger))

(EPINEPHRINE, physiol.

activation of musc. phosphorylases & simultaneous inhib. of musc. fatigue (Ger))

BOT, Gy.; SZILAGYI, T.; SZABO, E.

Effects of sugar loading and adrenalin on phosphorylase and glucose-6-phosphate activity of the liver. Acta physiol. hung. 11 no.3-4:421-426 1957.

1. Pathophysiologisches Institut der Medizinischen Universität, Debrecen.

(LIVER, eff. of drugs on

glucose loading & epinephrine on phosphorylase & glucose-6-phosphatase activity in dogs (Ger))

(GLUCOSE, eff.

loading, on phosphorylase & glucose-6-phosphatase activity in dog liver (Ger))

(EPINEPHRINE, eff.

on phosphorylase & glucose-6-phosphatase activity in dog liver (Ger))

(PHOSPHATASES

glucose-6-phosphatase activity in dog liver, eff. of glucose loading & epinephrine (Ger))

(PHOSPHORYLASES

in liver of dogs, eff. of glucose loading & epinephrine (Ger))

Bot, Gy
EXCERPTA MEDICA Sec.2 Vol.11/4 Physio-biochem-pharm Apr58

1488. SYNTHESIS AND CONVERSION OF PHOSPHORYLASE-A IN MUSCLE HOMOGENATE - Bildungs- und Umwandlungsverhältnisse von Phosphorylase-a im Muskelhomogenat - Bot Gy, and Jókay I. Pathohistol.Inst., Med.Univ., Debrecen - ACTA PHYSIOL.ACAD.SCIENT.HUNG.(Budapest) 1957, 11/3-4 (427-433) Graphs 6

In dialysed muscle homogenate phosphorylase-a is synthesized with ATP and Mg or Mn ions. Without dialysis alone ATP is sufficient. ATP influences the phosphorylase-a/phosphorylase-b ratio.

KESZTYUS, L.; SZABO, E.; BOT, Gy.; JOKAY, I.

Symptomatology of the Shwartzman phenomenon. Acta microb. hung. 5
no.2:209-216 1958.

1. Pathophysiologisches Institut der Medizinischen Universität,
Debrecen.

(ALLERGY,

Shwartzman phenomenon, sympt. (Ger))

BOT, Gyorgy; SZILAGYI, Tibor; SZABO, Andre

Effects of glucose loading and adrenalin on liver phosphorylase and glucose-6-phosphatase activities. Kiserletes orvostud 9 no.5-6:507-511 Oct-Dec 58.

1. Korelettani Intezet, Debrecen.

(GLUCOSE, eff.

loading, on liver phosphorylase & glucose-6-phosphatase activities in dogs (Hun))

(EPINEPHRINE, eff.

on liver phosphorylase and glucose-6-phosphatase activities in dogs (Hun))

(LIVER, metab.

glucose-6-phosphatase & phosphorylase, eff. of epinephrine & glucose loading on activities in dogs (Hun))

(PHOSPHORYLASES

in liver, eff. of epinephrine & glucose loading on activity in dogs (Hun))

(PHOSPHATASES

glucose-6-phosphatase in liver, eff. of epinephrine & glucose loading on activity in dogs (Hun))

BOT, Gyorgy; JOKAY, Istvan

Conditions of phosphorylase a formation and conversion in muscle homogenates. Kiserletes orvostud 9 no.5-6:520-526 Oct-Dec 58.

1. Korelettani Intezet, Debrecen.

(PHOSPHORYLASES

a, cond. of form. & conversion in musc. homogenates (Hun))

(MUSCLES, metab.

phosphorylase a form. & conversion, cond. in homogenates (Hun))

FOLDES, Istvan; MESZAROS, Lajos; BOT, Gyorgy

Effect of glucose-1-phosphate on callus formation. Kiserletes orvostud.
10 no.2-3:236-242 Apr-June 58.

1. Debreceni Orvostudományi Egyetem Anatómiai, Szövetes Fejlődéstani
Intézete és Korelettani Intézete.

(HEXOSEPHOSPHATES, eff.

glycose-1-phosphate on callus form. in fract. in rats
(Hun))

(FRACTURES, exper.

eff. of glucose-1-phosphate on callus form. in rats (Hun))

KESZTYUS, Lorand; SZABO, Endre; BOT, Gyorgy; JOKAY, Istvan

Data on the symptomatology of the Shwartzman phenomenon. Kiserletes
orvostud. 10 no.2-3:305-310 Apr-June 58.

1. Debreceni Orvostudományi Egyetem Korelátani Intézete.

(ALLERGY, exper.

Shwartzman phenomenon, metab. changes in (Hun))

JOKAY, I.; BOT, G.; SZILAGYI, T.

Antigenic properties of muscle phosphorylase. Kiserletes orvostud. 10
no.4:391-396 Aug 58.

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(ANTIGENS

antigenic properties of musc. phosphorylases, organ &
species specificity (Hun))

(MUSCLES, metab.

phosphorylases, antigenic properties, organ & species
specificity (Hun))

(PHOSPHORYLASES

musc., antigenic properties, organ & species specificity
(Hun))

BOT, G.

Phosphoglucomutase inhibition by 6-phosphogluconic acid. Kiserletes
orvostud. 10 no.4:426-429 Aug 58.

1. Debreceni Orvostudományi Egyetem Korelettani Intézete.

(MUTASES, antag.

phosphoglucomutase inhib. by 6-phosphogluconic acid in vitro
(Hun))

(HEXOSEPHOSPHATES, eff.

6-phosphogluconic acid inhib. of phosphoglucomutase in vitro
(Hun))

BOT, G.

Enzymatic synthesis of crystalline glucose-6-phosphate from inorganic phosphate. Acta physiol. hung. 13 no.4:317-320 1958.

1. Institute of Pathophysiology, Medical University, Debrecen.

(HEXOSEPHOSPHATES, metabolism

glucose-6-phosphate, enzymatic synthesis from inorganic phosphate & Starch)

(PHOSPHATES, metabolism

inorganic phosphate & starch in enzymatic synthesis of glucose-6-phosphate)

~~BOT, G.~~

Inhibition of phosphoglucomutase by 6-phosphogluconic acid. Acta
physiol. hung. 14 no.2:127-130 1958.

1. Institute of Pathophysiology, Medical University, Debrecen.

(MUTASES, antag.

phosphoglucomutase inhib. by 6-phosphogluconic acid)

(HEXOSEPHOSPHATES, eff.

6-phosphogluconic acid inhib. of phosphoglucomutase)

Bot, G.

JOKAY, I.; BOT, G.; SZILAGYI, T.

Antigenic activities of muscle phosphorylase. Acta physiol. hung.
14 no.2:155-161 1958.

1. Patophysiologisches Institut der Medizinischen Universität,
Debrecen.

(ANTIGENS

antigenic properties of phosphorylases from hen musc.,
organ & species specificity (Ger))

(PHOSPHORYLASES

in musc. of hen, antigenic properties, organ & species
specificity (Ger))

(MUSCLES, metab.

phosphorylases, antigenic properties of phosphorylases
from hen musc., organ & species specificity (Ger))

VARGA, Emil; HETENYI, Ede; BOT, Gyorgy

Influence of adrenalin on muscle phosphorylase activity and its significance in the mechanism of the fatigue-inhibiting action.
Kiserletes Orvostudomány 11 no.1:89-96 Feb 59.

1. Debreceni Orvostudományi Egyetem Elettani és Korelettani Intézete.

(MUSCLES, physiol.

eff. of epinephrine on phosphorylase activity & musc. fatigue in rabbits (Hun))

(FATIGUE, exper.

eff. of epinephrine on musc. fatigue & phosphorylase activity in rabbits (Hun))

(EPINEPHRINE, eff.

on musc. fatigue & phosphorylase activity in rabbits (Hun))

(PHOSPHORYLASES

of musc., eff. of epinephrine on activity & musc. fatigue in rabbits (Hun))

ASZODI, Lili, Dr.; STENSKY, Ernő, Dr.; BOT, György, Dr.

Serum phosphohexose-isomerase studies in blood donors. Orv. hetil. 100
no.6:213-214 8 Feb 59.

1. A Hajdu-Biharmegyei Tanács Kórhaza (igazgató főorvos: Menyi Géza dr.)
Megyei Verkonzerváló Állomásának (osztályvezető főorvos: Aszodi Lili dr.)
és a Debreceni Orvostudományi Egyetem Kóreltani Intézetének (igazgató:
Kesztyűs Loránd dr. egyet. tanár) közleménye.

(BLOOD TRANSFUSION

donors, blood phosphohexoisomerase determ. in screening for
prev. of post-transfusion hepatitis (Hun))

(HEPATITIS, etiol. & pathogen.

blood transfusion, prev. value of screening of donors by
determ. of blood phosphohexoisomerase activity (Hun))

(ISOMERASES, in blood

phosphohexoisomerase determ. in screening of blood donors
for prev. of post-transfusion hepatitis (Hun))

BOF, G.; ANDRASSY, Katalin O.; KOVACS, Edit F.

Protein enzyme synthesis in embryonic tissue in vivo. I. Glucose-6-phosphatase, phosphorylase and phosphoglucomutase formation in the liver of mammalian and chick embryos. Acta physiol.hung. 17 no.4:377-381 '60.

1. Chemisches Institut der Medizinischen Universität, Debrecen.

(LIVER metab)

(PHOSPHATASES metab)

(PHOSPHORYLASES metab)

(MUTASES metab)

BOT. Q.; KOVACS, Edit F.; ANDRASSY, Katalin O.; POLYIK, Edit H,

Protein enzyme synthesis in embryonic tissue in vivo. II Phosphorylase and phosphoglucomutase formation in the musculature of chick embryos. Acta physiol.hung. 17 no.4:383-389 '60.

1. Chemisches Institut der Medizinischen Universität, Debrecen.
(MUSCLES metab)
(PHOSPHORYLASES metab)
(MUTASES metab)

CSABA, V.; SZILAGYI, T.; SZABO, E.; BOT, G.

Effect of hypothermia on phosphorylase activity in the liver.
Acta physiol.hung. 18 no.1:31.35 '60.

1. Institute of Pathophysiology and Institute of Medical Chemistry,
Medical University, Debrecen.

(HYPOTHERMIA, INDUCED experimental)

(PHOSPHORYLASES metabolism)

(LIVER metabolism)

DEZSO, Istvan; BOT, Gyorgy

Effect of age and blood loss on the basic serum iron level and on its
increase after loading in rabbits. (So-called "iron resorption")
Kiserletes orvostud. 13 no.3:264-268 Jé '61.

1. Debreceni Orvostudományi Egyetem Orvosi Vegytani Intézete.

(IRON blood)

BOT, Gyorgy; O. ANDRASSY, Katalin; N. POLYIK, Edit

Activity of glycolytic enzymes after death. Kiserl. orvostud. 13
no.6:592-596 D '61.

1. Debreceni Orvostudományi Egyetem Orvosi Vegytani Intezete.

(CARBOHYDRASES) (CADAVER)

DEZSO, I.; BOT, G.

The effect of age and blood loss on the serum iron level and its elevation after an iron load (the so-called "iron absorption") in the rabbit. Acta med. hung. 17 no.2:145-149 '61.

1. Institute of Medical Chemistry, University Medical School, Debrecen.
(AGING physiol) (IRON blood)
(HEMORRHAGE exper.)

BOT, G.; KOVACS, E. F.

The effect of ATP on the activity of phosphoglucomutase. Acta physiol. akad. sci. hung. 21 no.1:43-53 '62.

1. Institute of Medical Chemistry, Medical University, Debrecen.

(ADENOSINE PHOSPHATES pharmacology)
(MUTASES metabolism)

DEZSO, I.; BOT, G.

Changes in "iron absorption" and iron-binding capacity in responses to bleeding in the rabbit. Acta physiol. 21 no.2:149-155 '62.

1. Institute of Medical Chemistry, Medical University, Debrecen.
(HEMORRHAGE experimental) (IRON blood)

BOT, Gyorgy; KOVACS, Edit

The effect of ATP on the activity of phosphoglucomutase. Kiserl.
orvostud. 14 no.4:398-406 S '62.

1. Orvosi Vegytani Intezet, Debrecen.
(ADENOSINE TRIPHOSPHATE) (PHOSPHOGLUCOMUTASE)

DEZSO, Istvan; BOT, Gyorgy

The effect of bleeding on changes in "iron absorption" and iron-binding capacity in rabbits. Kiserl. orvostud. 14 no.4:414-419 S '62.

1. Orvosi Vegytani Intezet, Debrecen.
(IRON METABOLISM) (HEMORRHAGE)

BOT, G.; ANDRASSY, Katalin; POFCSAIMY, Ilona; VEREB, G.

The effects of feeding, fasting and adrenaline on the glucose-6-phosphatase activity of the liver. Acta physiol. acad. sci. Hung. 26 no.4:297-304 '65

1. Institute of Medical Chemistry, University Medical School, Debrecen.

KOVACS, Edit. F.; BOT, G.

Inhibition of phosphoglucomutase by anions, phosphate esters
and Mg ion. Acta physiol. acad. sci. Hung. 27 no.4:327-340 '65.

1. Institute of Medical Chemistry, University Medical School,
Debrecen.

L 13500-66

ACC NR: AP6007046

SOURCE CODE: HU/0018/65/017/003/0284/0294

AUTHOR: F. Kovacs, Edit--F. Kovach, E.; Bot, ~~Georgy~~ Bot, D. 40
B

ORG: Institute of Medical Chemistry, Debrecen (Orvosi Vegytani Intezet)

TITLE: Inhibition of phosphoglucomutase with anions, phosphate esters and Mg^{++} ions

SOURCE: Kiserletes orvostudomány, v. 17, no. 3, 1965, 284-294

TOPIC TAGS: enzyme, magnesium, negative ion, organic phosphorus compound, animal physiology, biochemistry, cell physiology

ABSTRACT: Phosphoglucomutase is inhibited more by $MgSO_4$ than by $MgCl_2$. The inhibition by Na_2SO_4 is also greater than by $NaCl$. The mutase inhibitory (m.i.) effect of anions (fluoride, chloride, sulfate, phosphate, pyrophosphate) cannot be decreased with Mg^{++} ion. The m.i. effect of these anions is in competition with G-1,6- P_2 , the coenzyme of mutase. The m.i. effect of NaF cannot be diminished with excess Mg^{++} or with G-1-P; the inhibitory effect of the fluoride ion is also in competition with the G-1,6- P_2 . The m.i. effect of phosphate esters (ADP, AMP, UDP, UDFG and 6-P-gluconic acid) is also competitive to G-1,6- P_2 . The m.i. effect of ATP and UTP can be decreased by the addition of Mg^{++} ion and can be completely suspended by the combined addition of G-1,6- P_2 and Mg^{++} ion. The excess of Mg^{++} ion brings about a mutase inhibition in competition with G-1,6- P_2 .

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L 13500-66

ACC NR: AP6007046

which can be suspended with G-1, 6-P₂. Orig. art. has: 9 figures and 4 tables.
[JPRS]

SUB CODE: 06 / SUBM DATE: 31Jul64 / ORIG REF: 002 / OTH REF: 016

Card 2/2 *DR*

HUNGARY

BOT, Gyorgy, VEBER, Gyorgy: Institute of Medical Chemistry (Orvosi Vegytani Intezet), Debrecen.

"Correlations of the Glucose-6-Phosphatase, Inorganic Phosphatase and Pyrophosphate-Glucose-Phosphotransferase Activities of the Liver with Ontogenesis, and Changes in These Correlations in Diabetes as Well as Under Various Physiological Conditions."

Budapest, Kiserletes Orvostudomány, Vol XVIII, No 5, Oct 66, pages 547-553.

Abstract: [Authors' German summary] The activities of glucose-6-phosphatase (G-6-P-ase), inorganic pyrophosphatase (PP_i-ase) and pyrophosphate-glucose phosphotransferase (P-transferase) in the liver are proportionately decreased by the effect of a Dexmaltan diet and are proportionately increased by the effect of fructose. In diabetes, the PP_i-ase and P-transferase activities also increase together with the G-6-P-ase activity. In response to insulin, there is a large decrease in all three activities. In the liver of mammalian embryos (rat), there is an absence, during early ontogenesis, not only of G-6-P-ase but also of PP_i-ase and P-transferase activities. The three activities appear simultaneously at birth. In the liver of avian embryos (hen), all three activities are present. The G-6-P-ase, PP_i-ase and P-transferase activities of the liver can be looked upon as three functions of a single enzyme and are under the direction of a common gene. 2 Hungarian, 11 Western references. [Manuscript received 30 Nov 65.]

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- 7 -

SIMEDREA, T., ing.; REGOCZI, V.; BOT, Iosif; POP, Grigore, ing.

Labor productivity at the "Tehnofrig" and "Unirea" Enterprises,
Cluj. Probleme econ 17 no.10:147-148 O '64.

1. Director, I.S. "Tehnofrig", Cluj (for Simedrea).
2. Head of the Planning Service, I.S. "Tehnofrig" (for Regoczi).
3. Director, "Unirea" Metallurgic Plant, Cluj (for Bot).
4. Head of the Production Organization Service, "Unirea" Metallurgic Plant, Cluj (for Pop).

SECHEL, Vasile, ing.; CAZACU, Iulian; MORARU, Nicolae, ing.; ACHIM, Stelian, ing.; MIHAI, Dumitru, ing.; ANDREI, I.; CURPAN, V.; BOT, Iosif; STROHLI, Ignat; LUPSE, O., ing.; FELICALA, Gh., ing.; TEODORESCU, Dumitru, ing.

Modern technological proceedings in mechanical engineering.
Probleme econ 18 no.1:154-163 Ja '65.

1. Technical Director, "Tractorul" Plant, Brasov (for Sechel).
2. Chief Planning Engineer, "Tractorul" Plant, Brasov (for Cazacu)
3. Technical Director, "Independenta" Plant, Sibiu (for Moraru).
4. Chief Technologist, "Independenta" Plant, Sibiu (for Achim).
5. Director. Colibasi Plant for Automobile Parts (for Mihai).
6. Director. Metallurgic Plant, Bacau (for Andrei). 7. Chief Engineer, Metallurgic Plant, Bacau (for Curpan). 8. Director, "Unirea" Metallurgic Plant, Cluj (for Bot). 9. Chief Engineer, "Unirea" Metallurgic Plant, Cluj (for Strohli). 10. Chief Metallurgist, "Unirea" Metallurgic Plant, Cluj (for Lupse).
11. Director, "Feroemail" Plant Technical and Sanitary Products and Installations, Ploiesti (for Pelicala). 12. Head of Technical Services, "Feroemail" Plant for Technical and Sanitary Products and Installations, Ploiesti (for Teodorescu).

BOT, Iosif; STROHLI, Ignat; CHIOLTEAN, Ioan, ing.

Increasing product quality, an essential objective of the economic activity. Probleme econ 18 no.3:162-163 Mr '65.

1. Director, "Unirea" Metallurgic Plant, Cluj (for Bot).
2. Chief Engineer, "Unirea" Metallurgic Plant, Cluj (for Strohl).
3. "Unirea" Metallurgic Plant, Technical Office, Cluj (for Chioltean).

BOT, K.

Experience of innovators and efficiency promoters. Stroitel' 8
no.7:11,14 J1 '62. (MIRA 15:8)
(Building--Technological innovations)

BOT, K. A.

Opyt novatorov-parketchikov P. K. Tochilkina i E. I. Boitsova / Experience of
innovator parquet-workers P. K. Tochilkin and E. I. Boitsov /. Leningrad, 1953. 32 p.

SO: Monthly List of Russian Accession, Vol. 6 No. 12 March 1954.

BOT, Kirill Aleksandrovich; MAKAROV, V.I., red.; LEPIN, A.E., red.;
KOTLYAKOVA, O.I., tekhn. red.

[Handbook for the roofer] Pamiatka krovel'shchika. Pod obshchei
red. V.I.Makarova. Leningrad, Lenizdat, 1961. 58 p.

(MIRA 15:1)

(Roofing--Handbooks, manuals, etc.)

BOT, Kirill Aleksandrovich; MAKAROV, V.I., red.; LEPIN, A.E., red.;
LEVONEVSKAYA, L.G., tekhn.red.

[Painter's handbook] Pamiatka maliara. Pod obshchei red.
V.I.Makarova. Leningrad, Lenizdat, 1961. 65 p.

(MIRA 15:2)

(Painting, Industrial)

BOT, Olimpia

"Methodes d'analyse polarographique pour le Fe, Cu, Pb, Cd et Zn des
minerais complexes et des concentrates de Pb, de Zn et de Cu." Revue de Chemie,
Vol. 2, 1954, Bucharest.

~~Bot, O.~~ Bot, O.

RUMANIA/Analytical Chemistry - Analysis of Inorganic Substances. E-2

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 24725

Author : Burlacu, Gh., Bot Olimpia, Ioan Cornelia

Inst : Iasy Polytechnic Institute.

Title : The Use of Sodium Nitrite Solutions in Polarography.
Determination of Silver, Copper and Lead.

Orig Pub : Bul. Inst. politehn. Iasi, 1956, 2, No 3-4, 105-116

Abstract : On polarography of solutions containing Ag^+ , Cu^{2+} and Pb^{2+} ions, with a background of 6-7 N NaNO_2 , the Cu^{2+} ion gives a polarographic curve consisting of two waves of which the 1-st wave becomes superposed on the Ag^+ wave, while the second wave of Cu^{2+} and the Pb^{2+} wave are sufficiently distinct under these conditions. On this basis a polarographic method has been developed for the determination of Ag^+ , Cu^{2+} and Pb^{2+} , in the presence of one another,

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RUMANIA/Analytical Chemistry - Analysis of Inorganic Substances.

E-2

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 24725

within the concentration range of 10^{-6} - 10^{-4} g/ml.
 Cu^{2+} is determined from the height of its 2-nd wave, and Ag^{+} by subtracting the height of 1-st wave of Cu^{2+} (calculated according to concentration of Cu^{2+} as determined from the 2-nd wave of Cu^{2+}) from the summative height of 1-st wave of Cu^{2+} and Ag^{+} wave. If the concentration of Cu^{2+} , in relation to concentration of Ag^{+} , is too high, KCN is added to the polarographic solution whereupon the Cu^{2+} wave disappears.

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BOT, OLIMPIA

RUMANIA/Analytical Chemistry - Analysis of Inorganic Substances.

E-2

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 24879

Author : Burlecu, Gh., Bot Olimpia, Antonescu Ioan

Inst : Rumanian Academy

Title : Polarographic Determination of Copper, Lead, Cadmium and Zinc in Lead Concentrates.

Orig Pub : Studii si cercetari stiint. Acad. RPR Fil Iasi, Chim, 1956, 7, No 1, 17-23

Abstract : Cu, Pb, Cd and Zn, at concentrations of 1/1500 - 1/50 N, are determined polarographically with a background of NaNO (0.5-5 g-mole/liter) by the method of additions. Determination is effected separately for each element or concurrently if the difference between concentrations of individual elements is not too great. Concentration of

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RUMANIA/Analytical Chemistry - Analysis of Inorganic
Substances.

E-2

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 24879

is added thereto, and water to bring the volume to 20-
25 ml. O is removed with a current of H . Determina-
tion error does not exceed 1%.

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8

ZBEGAN, V.; JURA, C.; GIURCONIU, M.; NICOARA, T.; POPA, Gh.; CRETU, Gh.;
BOTA, A.

Treating surface waters for industrial use. Bul St si Tehn Tim
9 no.1:297-304 Ja-Je '64.

1. Submitted June 24, 1964.

KELEMEN, F.; BOTA, F.; NEDA, A.

A measuring method of gel diffusion by radioactive isotopes.
Studii cerc fiz 14 no.5:583-588 '63.

KELEMEN, Frideric; BOTA, Felicia; NEDA, Arpad

Parallel study on the corrosion and photoelectric effect in
some metals under the influence of temperature. Studia Univ
B-B S. Math-Phys 7 no. 2:77-88 '62.

KELEMEN, F.; BOTA, F.; NEDA, A.

Method of heat impulsion applied to the thermal diffusivity
measurement of short tests. Studii cerc fiz 16 no.7:809-819
'64

1. Chair of Mechanics and Heat, the "Babeş-Bolyai" University,
Cluj.

BOTA, I.

Public control organization in Rumanian watering places and health resorts. Munca sindic 6 no.4:43-45 Ap '62.

1. Presedinte al Consiliului local al sindicatelor Rimnicu-Vilcea.

BOTA, László

Analysis of productivity increase at the Hungarian Optical Works.
Munka szemle 6 no.6:4-7 Je '62.

MATEI, I., candidat in stiinta economice (Iasi); BOTA, M. (Iasi)

Collective farms' own investments and their rational
utilization. Probleme econ 16 no. 5: 107-115 My '63.

BOTA, M. (Iasi)

Reduction of cost price in the Birlad Bearing Factory.
Problems econ 15 no.9:127-134 S '62.

BOTA, Octavian, ing.

Socialist competition is helping to introduce new techniques.
Constr Buc 15 no.721:4 N '63.

1. Responsabilul comisiei pentru problemele intracerii socialiste
a comitetului sindicatului, Directia de sistematizare, arhitectura
si proiectarea constructiilor, Cluj.

GAVRILA, I., prof.; COMES, L., conf.; PIRVU, C., dr.; URCAN, S., dr.; FRATILA, O., dr.,
BOTA, R., chimist

Investigations of amylase in the blood and urine in epidemic
parotitis. Med. int., Bucur. 12 no.1:15-22 Ja '60.

1. Lucrare efectuata in Clinica de boli contagioase, Cluj,
director prof. I. Gavrilă.
(AMYLASES, metabolism)
(PAROTITIS, metabolism)